HT-S6405 5.1-CHANNEL NETWORK A/V RECEIVER/SPEAKER PACKAGE

BLACK

Microphone for Audyssey

Network Versatility Plus New Solid-and-Suave Speaker Design

Ready to be immersed in room-filling surround sound? Meet the new HT-S6405 from Onkyo. This network receiver and speaker set packs all the connections and processing power you need to bring your entertainment to life. The receiver's networking ability—rare at this level—lets you incorporate internet radio and PC audio into your home cinema. Meanwhile, its four HDMI® inputs allow hook-up of high-def sources such as a Blu-ray player and a set-top box. HDMI on this system carries 3D video, an Audio Return Channel, and high-def audio from Dolby® TrueHD and DTS-HD Master Audio™. Other connectors include a Universal Port for Onkyo peripherals, and front-side analog A/V inputs for a game console or camcorder. Also located front-side is a USB input that provides a clean, digital connection for flash memory or iPod/iPhone audio content. Audyssey 2EQ® ensures a room-matching soundstage, helping you get the best out of the newly designed high-density speakers and matching powered subwoofer. Do your movies, music, and games a favor, and introduce them to the HT-S6405.

TX-NR509
5.1-Channel Network A/V Receiver

- 130 W/Ch at 6 Ω, 1 kHz, 1%, 1 Channel Driven, IEC
- HDMI® Support for 3D, Audio Return Channel, DeepColor™, x.v.Color™, LipSync, Dolby® TrueHD, DTS-HD Master Audio™, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- 4 HDMI Inputs and 1 Output
- Direct Digital Connection of iPod/iPhone via Front-Panel USB Port
- Dolby® TrueHD, DTS-HD Master Audio™, Dolby® Digital Plus, DTS-HD High-Resolution Audio™ Decoding
- TI Burr-Brown 192 kHz/24-Bit DACs for All Channels
- PLL (Phase Locked Loop) Jitter-Cleaning Circuit Technology for S/PDIF Audio
- Playback of Audio Files Through Local Network (MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, LPCM)
- Internet Radio and Music Streaming Service Connectivity (vTuner, Last.fm*, Napster*)
- Certified with Windows® 7 and DLNA Version 1.5
- Firmware Updates via Ethernet and USB
- Universal Port for Onkyo Peripheral Devices Such as UP-A1 Dock for iPod/iPhone or UP-DT1 DAB+ Radio Tuner
- Zone 2 Line-Out for Distributed Audio Playback in Another Room
- Audyssey 2EQ® for Room Acoustic Correction
- Audyssey Dynamic EQ® for Loudness Correction
- Audyssey Dynamic Volume® to Maintain Optimal Listening Level and Dynamic Range
- Overlaid On-Screen Display (OSD) via HDMI
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- Optimum Gain Volume Circuitry
- Advanced 32-Bit Processing DSP Chip
- 4 DSP Modes for Gaming: Rock, Sports, Action, and RPG
- Advanced Music Optimizer for Compressed Digital Music Files
- Handles Playback of Mass Storage Class USB Memory
- Theater-Dimensional Virtual Surround Function
- CinemaFILTER™
- Direct Mode and Pure Audio Mode
- Double Bass Function
- Non-Scaling Configuration
- A-Form Listening Mode Memory
- HDTV-Capable (720p/1080i) Component Video Switching (2 Inputs and 1 Output)
- 5 Composite Video Inputs (1 Front/4 Rear) and 2 Outputs
- 4 Digital Audio Inputs (2 Optical and 2 Coaxial)
- 6 Analog Audio Inputs (1 Front/5 Rear) and 1 Output
- Subwoofer and Surround-Back Pre Outs
- Color-Coded, Banana Plug-Compatible Speaker Posts
- Crossover Adjustment (40/50/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control (Up to 400 ms at 48 kHz)
- Tone Control (Bass/Treble) for Front L/R Channels
- 3-Mode Display Dimmer (Normal/Dim/Dimmer)
- RDS (PS/RT/PTY/TP)
- 40 FM/AM Random Presets
- RIHD (Remote Interactive over HDMI) for System Control
- Full-Function RI Remote Control

* *Availability of services depends on region.*

HTP-648
5.1-Channel Home Cinema Speaker System

SKF-648 2-Way Acoustic Suspension Front Speakers

- 8 cm Cone Woofer
- 2.5 cm Balanced-Dome Tweeter
- Max. Input Power: 130 W
- Gloss Finished
- Magnetically Shielded

SKC-648 2-Way Acoustic Suspension Center Speaker

- 8 cm Cone Woofer x 2
- 2.5 cm Balanced-Dome Tweeter
- Max. Input Power: 130 W
- Gloss Finished
- Magnetically Shielded

SKR-648 Full-Range Acoustic Suspension Surround Speakers

- 8 cm Cone
- Max. Input Power: 130 W
- Gloss Finished

Note: All speakers feature an impedance of 6 Ω color-coded speaker terminals and cable, and wall-mounting capability.

SKW-501E Bass Reflex Powered Subwoofer

- 20 cm Cone
- Rated Output Power: 80 W (Minimum Continuous Power, 4 Ω, 100 Hz, 1%, IEC)
- Down-Firing
- Gloss Finished
- Output Level Control

HT-S6405 5.1-CHANNEL NETWORK A/V RECEIVER/SPEAKER PACKAGE

HDMI® Support for 3D Video and Audio Return Channel

The four HDMI inputs on the HT-S6405's A/V receiver let you simultaneously connect high-def sources such as a Blu-ray player, a gaming console, and a cable/satellite tuner. A single output then sends a pristine signal to your connected high-resolution display. The HDMI implementation on this receiver supports both 3D video and an Audio Return Channel, along with numerous high-resolution formats. 3D video brings exciting possibilities to home entertainment, with movie, game, and broadcast content on the increase and 3D-compatible TVs now on the market. Meanwhile, the Audio Return Channel allows audio content received directly by your HDTV's tuner to be sent "upstream" via HDMI to your A/V receiver, without the need for a separate S/PDIF audio cable.

Network Capability Delivers Internet Radio and Network Audio Streaming via Ethernet

As one of Onkyo's new breed of receivers that can link directly to the internet or to your home PC via a local network, the HT-S6405's A/V receiver takes streaming audio and internet radio to a whole new level. MP3, WMA, WMA Lossless, FLAC, WAV, Ogg Vorbis, AAC, and LPCM audio files can now be played back through your main system with unprecedented power and fidelity. The receiver also brings to life a huge array of internet radio channels from Last.fm* and vTuner, plus on-demand music streaming from Napster*. As well as being compatible with earlier platforms, the receiver is compatible with Microsoft's Windows® 7 platform, which includes the DLNA 1.5-specified "Play To" media-streaming feature. The receiver's internet connectivity has the added benefit of making firmware updates simpler than ever.

**Availability of services depends on region.*

Direct Digital Connection of iPod/iPhone via Front-Panel USB Port

The front-panel USB port on the HT-S6405's A/V receiver lets you access MP3, WMA, FLAC, and AAC audio files stored on a USB flash drive or iPod/iPhone. As the audio signals are transported in digital form, rather than analog, there is much less chance for signal degradation. End result: your music sounds cleaner and more faithful to the original. A further benefit of the USB input is that it lets you use the system's remote controller to play back audio files on the connected device.

A Suite of Audyssey Technologies for the Ideal Listening Environment

The HT-S6405 comes equipped with three sound-enhancing Audyssey technologies.

(1) Audyssey 2EQ® *tailors multi-channel audio for your home cinema speaker set-up by measuring three room positions and applying a resolution filter to the satellite speakers to correct for room acoustics.*

(2) Audyssey Dynamic EQ® *maintains a consistent bass response, tonal balance, and surround-sound effect at different volume levels, so you can enjoy the natural dynamics of your content regardless of the volume.*

(3) Audyssey Dynamic Volume® *automatically compensates for volume fluctuations in different audio content—for example, during commercial breaks—while optimizing the dynamic range.*

Convenient Overlaid On-Screen Display via HDMI

Changing your A/V receiver's settings is now more seamless than ever, thanks to Onkyo's overlaid On-Screen Display (OSD) feature. On-screen set-up menus appear overlaid on the video image you're watching. This means you can adjust the settings immediately, without having to switch back and forth from a blank screen background.

Sleek, Solid-Style, High-Density Speakers

The HT-S6405's 5.1-channel speaker set includes a powered subwoofer and matching gloss-finished front, center, and surround speakers. These compact—yet reassuringly solid—speakers are made from a new, high-density resin designed for maximum rigidity and minimum vibration. The elegantly curved shape of the speaker cabinets does more than just add a touch of class; it also helps to counteract standing waves, ensuring sound output with greater fidelity.

SPECIFICATIONS

A/V RECEIVER

Amplifier Section

Power Output	
Front L/R	130 W/Ch (6 Ω, 1 kHz, 1%, 1 channel driven, IEC)
Center	130 W (6 Ω, 1 kHz, 1%, 1 channel driven, IEC)
Surround L/R	130 W/Ch (6 Ω, 1 kHz, 1%, 1 channel driven, IEC)
Dynamic Power	180 W (3 Ω, Front) 160 W (4 Ω, Front) 100 W (8 Ω, Front)
THD+N (Total Harmonic Distortion + Noise)	0.08% (20 Hz–20 kHz, Half power)
Damping Factor	60 (Front, 1 kHz, 8 Ω)
Input Sensitivity and Impedance	200 mV/47 kΩ (Line)
Rated RCA Output Level and Impedance	200 mV/2.2 kΩ (Rec out)
Maximum RCA Output Level and Impedance	2.0 V/2.2 kΩ (Rec out)
Frequency Response	20 Hz–50 kHz/+1 dB, -3 dB (DSP bypass)
Tone Control	±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble)
Signal-to-Noise Ratio	100 dB (Line, IHF-A)
Speaker Impedance	6 Ω–16 Ω

Video Section

Input Sensitivity/Output Level and Impedance	
Video	1.0 Vp–p/75 Ω (Component Y) 0.7 Vp–p/75 Ω (Component PB/CB, PR/CR) 1.0 Vp–p/75 Ω (Composite)
Component Video Frequency Response	5 Hz–100 MHz/0 dB, -3 dB

Tuner Section

Tuning Frequency Range	
FM	87.5 MHz–108 MHz
AM	522 kHz–1,611 kHz 530 kHz–1,710 kHz
FM/AM Preset Memory	40 stations

General

Power Supply	AC 230 V~, 50 Hz
Power Consumption	370 W
Dimensions (W x H x D)	435 x 173.5 x 328 mm
Weight	9.2 kg

SPEAKER SYSTEM

Speaker Type	
Front	2-way, Acoustic suspension
Center	2-way, Acoustic suspension
Surround	Full-range, Acoustic suspension
Subwoofer	Bass reflex, Powered
Drivers	
Front	8 cm cone woofer 2.5 cm balanced-dome tweeter
Center	8 cm cone woofer x 2 2.5 cm balanced-dome tweeter
Surround	8 cm cone
Subwoofer	20 cm cone
Frequency Response	
Front	70 Hz–50 kHz
Center	70 Hz–50 kHz
Surround	80 Hz–20 kHz
Subwoofer	27 Hz–150 Hz
Output Sound Pressure Level	
Front	79 dB/W/m
Center	82 dB/W/m
Surround	80 dB/W/m
Max. Input Power	
Front/Center/Surround	130 W
Rated Output Power	
Subwoofer	80 W (Minimum continuous power; 4 Ω, 100 Hz, 1%, IEC)
Nominal Impedance	
Front/Center/Surround	6 Ω
Input Sensitivity/Impedance	
Subwoofer	410 mV/20 kΩ

General

Dimensions (W x H x D)	
Front	102 x 170 x 105 mm
Center	277 x 110 x 110 mm
Surround	102 x 170 x 105 mm
Subwoofer	230 x 425 x 412 mm
Weight	
Front	1.0 kg
Center	1.7 kg
Surround	0.9 kg
Subwoofer	9.1 kg

CARTON

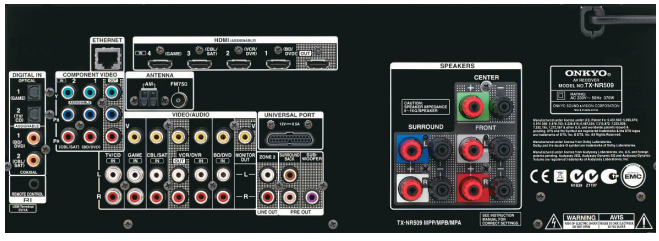
Dimensions (W x H x D)	566 x 531 x 769 mm
Weight	29.5 kg

Supplied Accessories

• Indoor FM antenna • AM loop antenna • Color-coded speaker cable • Subwoofer cable • Speaker set-up microphone • Instruction manual • Quick set-up guide • Remote controller • AA (R6) batteries x 2

TX-NR509

Front View



Rear View

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